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	10/004,563	12/05/2001	Michael G. Hluchyj	2214/103	8387
		,	EXAMINER		
125 SUMMER STREET		HYUN, SOON D			
	BOSTON, MA	10N, MA 02110-1018		ART UNIT	PAPER NUMBER
				2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/004,563	HLUCHYJ, MICHAEL G.				
Office Action Summary	Examiner	Art Unit				
•		2616				
The MAILING DATE of this communicati	Soon D. Hyun ion appears on the cover sheet w					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica. If NO period for reply is specified above, the maximum statutor. - Failure to reply within the set or extended period for reply will, the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a ation. y period will apply and will expire SIX (6) MOI by statute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed or	n 18 October 2006.					
	☐ This action is non-final.					
3) Since this application is in condition for	allowance except for formal mat	ters, prosecution as to the merits is	;			
closed in accordance with the practice u	inder <i>Ex parte Quayl</i> e, 1935 C.[). 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the appli	cation.					
4a) Of the above claim(s) is/are w						
5) Claim(s) is/are allowed.		,				
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Ex	raminer					
· ·						
Applicant may not request that any objection		·				
Replacement drawing sheet(s) including the	= ' '		1).			
11) The oath or declaration is objected to by	•		,			
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for f	oreign priority under 35 H.S.C.	\$ 119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	oroign phoney under do d.c.o.	; 110(a) (a) or (i).				
2. Certified copies of the priority doc		application No				
3. Copies of the certified copies of the		• • • • • • • • • • • • • • • • • • • •				
application from the International						
* See the attached detailed Office action fo		received.				
		,				
		·				
Attachment(s)	·					
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-9	· · · · /	s)/Mail Date nformal Patent Application				
3) M Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/11/2006.	6) Other:					
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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887,225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321 (c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1, 2, 13 and 14 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 5, 16, and 18 of U.S.

Patent No. 6,381,238. Although the conflicting claims are not identical, they are not patentably distinct from each other because;

"A later patent claim is not patentably distinct from an earlier patent claim if the

later claim is obvious over, or anticipated by, the earlier claim. In re Longi, 759 F.2d at 896, 225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior art patents); In re Berg, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (affirming a holding of obviousness-type double patenting where a patent application claim to a genus is anticipated by a patent claim to a species within that genus). " ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

Moreover, omission of a reference element whose is not needed would be obvious tone of ordinary skill in the art. It well settled that the omission of an element and its functions is an obvious expedient if the remaining elements perform the same function as before168 USPQ 375 (Bd..App. 1969). In re Karlson, 163 USPQ 184 (CCPA 1963). Also note Ex parte Rainu.

Regarding claim 1, claim 18 Of Patent No. 6,381,238 encompasses the limitations of claim! of the instant application.

Regarding claim 2, claim 16 of Patent No. 6,381,238 encompasses the limitations of claim 3 of the instant application.

Regarding claims 13 and 14, claim 5 of Patent No. 6,381,238 encompasses the limitations of claims 13 and 14 of the instant application.

Claim Objections

4. Claims 1, 13, and 15 are objected to because of the following informalities:

In claims 1 and 15, line 13, respectively, each claim recites a limitation "capable of" which is not a positive recitation. Under MPEP 2106, page 2100-8, "language that suggests or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim limitation."

In claim 13, line 13, "the" should be changed to – a – to avoid lack of antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Benayoun et al (U.S. Patent No. 5,959,992) in view of Li et al (U.S. Patent No. 6,195,714).

Regarding claim 1, Benayoun et al (Benayoun) discloses a system (a communication structure in FIG. 14) for connecting a packet network (a LAN A in FIG. 14) with a circuit network (El or ISDN primary line in FIG. 14) comprising:

a module (HUB 1480 in FIG. 14) for receiving a packet based signal (a signal

from the LAN A) and transcoding the packet based signal creating a transcoded packet-based signal (transforming the signal from the LAN A to ATM cell, col. 20, lines 47-49);

a module (an interface brick 1435 in FIG. 14) for receiving the ATM cell and reassembling the signal to create a circuit based signal (a signal to be transmitted over the E1 or ISDN line, col. 20, lines 50-53);

a module (a router brick 1445 in FIG. 14) for sending the transcoded packetbased signal to the module for receiving the transcoded packet-based signal.

However, Benayoun differs from the present application in that echo cancellation is performed in a different module (an echo cancel brick 1440 in FIG. 14) other than the interface brick 1435.

Li et al (Li) teaches that a TDM peripheral (36a in FIG. 1a) in a gateway to an ATM network performs echo cancellation for circuit-based signal (col. 6, lines 17-36).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate an echo cancellation into the brick 1435 brick to perform the echo cancellation and other functions (TDM-ATM) together at the brick 1435 (a gateway).

Regarding claim 2, Benayoun discloses a system (a communication structure in FIG. 14) for connecting a circuit network (EI or ISDN primary line in FIG. 14) with packet network (a LAN A in FIG. 14) comprising:

a module (an interface brick 1435 in FIG. 14) for receiving a circuit-based signal (a signal over E1 or ISDN primary line in FIG. 14) and performing packet adaptation to create a packet-based signal (creating an ATM cell, col. 20, lines 50-53);

a module (HUB 1480 in FIG. 14) for receiving the ATM cell (the packet-based signal) and transcoding the ATM cell to create a transcoded packet based signal (transforming the ATM cell to a signal for a LAN A, col. 20, lines 47-49);

a module (a router brick 1445 in FIG. 14) for sending the packet-based signal to the module for receiving the packet-based signal.

However, Benayoun differs from the present application in that echo cancellation is performed in a different module (an echo cancel brick 1440 in FIG. 14) other than the interface brick 1435.

Li et al (Li) teaches that a TDM peripheral (36a in FIG. 1a) in a gateway to an ATM network performs echo cancellation for circuit-based signal (col. 6, lines 17-36).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate an echo cancellation into the brick 1435 brick to perform the echo cancellation and other functions (TDM-ATM) together at the brick 1435 (a gateway).

Regarding claims 3-6, Benayoun discloses a system (a communication structure in FIG. 14) for connecting a circuit network (El or ISDN primary line in FIG. 14) with a packet network (a LAN A in FIG. 14) comprising:

a packet switch fabric (a router brick 1445 in FIG. 14);

a circuit network server (an interface brick 1435 in FIG. 14) having a first port for sending and receiving circuit-based signals (a signal over E1 or ISDN primary line in FIG. 14) with the circuit network, the circuit network server having a first digital signal

processor to perform packet adaptation (creating an ATM cells or creating TDM signals, col. 20, lines 50-53) and a second port for sending and receiving ATM cells (packet-based signals having packets) with the packet switch fabric; and

a packet network server (HUB 1480 in FIG. 14) having a first port for sending and receiving ATM cells (packet-based signals) with the packet switch fabric and a second port for sending and receiving packet-based signals (LAN signals for LAN A in FIG. 14) with the packet network (LAN A in FIG. 14), wherein the packet switch fabric is transferring ATM cells (packet-based signals) among the packet network server and the circuit network server, and among the circuit network server and a second circuit network server (a ISDN gateway brick 1430 in FIG t4, col. 20, lines 58-65).

However, Benayoun differs from the present application in that echo cancellation (signal processing by a second digital processor) is performed in a different module (an echo cancel brick 1440 in FIG. 14) other than the interface brick 1435.

Li et al (Li) teaches that a TDM peripheral (36a in FIG. 1a) in a gateway to an ATM network performs echo cancellation (col. 6, lines 17-36).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate an echo cancellation into the brick 1435 brick to perform the echo cancellation and other functions (TDM-ATM) together at the brick 1435 (a gateway).

Regarding claims 7 and 8, Benayoun further teaches that the switch fabric is switching module comprising switch (see FIG. 4).

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Regarding claims 9 and 10, Benayoun further teaches that the switch fabric is a cell (packet) bus (see FIG. 4).

Regarding claims 11 and 12, Benayoun further discloses a voice server 1420 signal processing server) for sending and receiving ATM cells (packet-based signals) with the packet switch fabric, the voice server having a digital processor for gateway processing on the ATM cells (col. 24, lines 33-36), wherein the packet switch fabric transfers the ATM cells to the voice server.

Regarding claim 13, Benayoun discloses a method for communicating a circuitbased signal as a packet-based signal comprising:

receiving a circuit-based signal (a signal over E1 or ISDN primary line in FIG. 14) and performing packet adaptation to, create a packet-based signal by an interface brick 1435 in FIG. 14 (creating an ATM cell, col. 20, lines 50-53); transferring the ATM cell to a packet switch fabric (a router brick 1445 in FIG. 14);

transferring the ATM cell from the packet switch fabric to a signal processing server (a voice compression brick 1460);

transcoding the ATM cell to create a transcoded ATM cell (a compressed ATM cell) by the voice compression brick 1460;

directing the transcoded ATM cell from the voice compression brick 1460 to a Hub brick 1480 (a packet network server); and sending the transcoded ATM cell from the Hub brick 1480 to a LAN A (FIG. 14).

However, Benayoun differs from the present application in that echo cancellation

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is performed in a different module (an echo cancel brick 1440 in FIG. 14) other than the interface brick 1435.

Li et al (Li) teaches that a TDM peripheral (36a in FIG. 1a) in a gateway to an ATM network performs echo cancellation for circuit-based signal (col. 6, lines 17-36).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate an echo cancellation into the brick 1435 brick to perform the echo cancellation and other functions (TDM-ATM) together at the brick 1435 (a gateway).

Regarding claim 14, Benayoun further teaches that the voice compression brick 1460 transfers the transcoded ATM cell to the router brick 1445 which transfers the transcoded ATM cell to the Hub brick 1480 (col. 24, lines 17-36).

Regarding claim 15, Benayoun discloses a system (a communication structure in FIG. 14) for connecting a circuit network (El or ISDN primary line in FIG. 14) with a packet network (a LAN A in FIG. 14) comprising:

a packet switch fabric (a router brick 1445 in FIG. 14);

a circuit network server (an interface brick 1435 in FIG. 14) having a first port for sending and receiving circuit-based signals (a signal over E1 or ISDN primary line in FIG. 14) with the circuit network, the circuit network server having a first digital signal processor to perform packet adaptation (creating an ATM cells, col. 20, lines 50-53) and a second port for sending and receiving ATM cells (packet-based signals having packets) with the packet switch fabric; and

a packet network server (HUB 1480 in FIG. 14) having a first port for sending and

receiving ATM cells (packet-based signals) with the packet switch fabric and a second port for sending and receiving packet-based signals (LAN signals for LAN A in FIG. 14 with the packet network (LAN A in FIG. 14), wherein the packet switch fabric is transferring ATM cells (packet-based signals) among the packet network server and the circuit network server, and among the packet network server and a second packet network server (a ATM HUB brick 1470, col. 20, lines).

However, Benayoun differs from the present application in that echo cancellation (signal processing by a second digital processor) is performed in a different module (an echo cancel brick 1440 in FIG. 14) other than the interface brick 1435.

Li et al (Li) teaches that a TDM peripheral (36a in FIG. 1a) in a gateway to an ATM network performs echo cancellation (col. 6, lines 17-36).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate an echo cancellation into the brick 1435 brick to perform the echo cancellation and other functions (TDM-ATM) together at the brick 1435 (a gateway).

Regarding claim 16, Benayoun further teaches that the switch fabric is a switching module (FIG. 4).

Regarding claims 17 and 18, Benayoun further teaches that the switch fabric is a cell (packet) bus (see FIG. 4).

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Soon D. Hyun whose telephone number is 571-272-3121. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris H. To can be reached on 571-272-7629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S. Hyun 1/19/2007

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